



LKT Laboratories, Inc.

Norfloxacin

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Product Information

Product ID N5768

CAS No. 70458-96-7

Chemical Name 1-Ethyl-6-fluoro-1,4-dihydro-4-oxo-7-(1-piperazinyl)-3-quinolinecarboxylic acid

Synonym Baccidal, Sebercim

Formula C₁₆H₁₈FN₃O₃

Formula Wt. 319.33

Melting Point 227-228°C

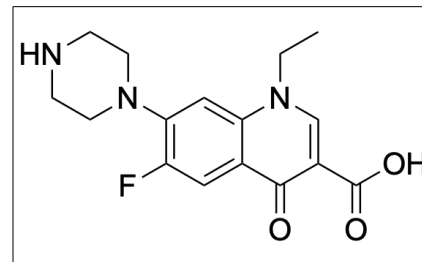
Purity ≥98%

Solubility Soluble in water (0.28 mg/mL), methanol (1 mg/mL), ethanol (1.9 mg/mL).

Store Temp Ambient

Ship Temp Ambient

Description Norfloxacin is a first generation fluoroquinolone antibiotic that exhibits antibacterial, anti-inflammatory, and anticancer activities. Norfloxacin inhibits DNA gyrase and topoisomerase IV; it is clinically used to treat urinary tract infections and prostatitis. In neutrophils from cirrhotic subjects, norfloxacin increases expression of IL-10 and heme oxygenase 1 (HO-1) and decreases expression of pro-inflammatory cytokines. Additionally, when complexed with gold(III), norfloxacin binds DNA and inhibits cellular proliferation in several cancer cell lines.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
N5768	1 g	\$37.10
N5768	5 g	\$83.40
N5768	10 g	\$143.40
N5768	50 g	\$510.30

References Gouvea LR, Garcia LS, Lachter DR, et al. Atypical fluoroquinolone gold(III) chelates as potential anticancer agents: relevance of DNA and protein interactions for their mechanism of action. *Eur J Med Chem.* 2012 Sep;55:67-73. PMID: 22835721.

Gómez-Hurtado I, Zapater P, Bellot P, et al. Interleukin-10-mediated heme oxygenase 1-induced underlying mechanism in inflammatory down-regulation by norfloxacin in cirrhosis. *Hepatology.* 2011 Mar;53(3):935-44. PMID: 21374664.

Padeřskaia EN. Norfloxacin: more than 20 years of clinical use, the results and place among fluoroquinolones in modern chemotherapy for infections. *Antibiot Khimioter.* 2003;48(9):28-36. PMID: 15002177.

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Ho YB, Zakaria MP, Latif PA, Saari N. Occurrence of veterinary antibiotics and progesterone in broiler manure and agricultural soil in Malaysia. *Sci Total Environ.* 2014 Aug 1;488-489:261-267. PMID: 24836135.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.